



SCOTT FORESMAN Investigations

IN NUMBER, DATA, AND SPACE®

As a way to become familiar with this unit:

- Read the selections
- Try/think through the Activities
- Review the Assessment opportunities
- Do the end-of-unit assessment tasks

Number Games and Crayon Puzzles

This unit is the 6th of 9 units in first grade. It is part of the K-5 number and operations strand, and is the 3rd of 4 addition and subtraction units at this grade. This unit builds on the work of the previous units in this strand. Before teaching this unit, perhaps after working through this *Where to Start*, read *Mathematics in This Unit*, p. 10.

Investigation 1: Combinations of 10

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 21)
- Investigation 1 Planner (p. 22 & 24)

The following activities and information support the key math ideas:

- Activity: Introducing Make 10 (p. 40)
- Activity: Introducing *Quick Images*: Ten-Frames (p. 46)
- Activity: Introducing Tens Go Fish (p. 56)
- Teacher Note: Strategies for Learning the Addition Combinations (p. 143)

Investigation 2: Combinations of Numbers

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 67)
- Investigation 2 Planner (p. 68)

The following activities and information support the key math ideas:

- Discussion: Discussing Combinations of 12 (p. 74)
- Activity: Introducing Crayon Puzzles about More (p. 77)
- Teacher Note: About Crayon Puzzles (p. 147)
- Dialogue Box: Introducing Crayon Puzzles (p. 176)

Preparation

- Materials to Gather and Prepare (pp. 23, 25, 69, 99, 101)
- Learn the variations of *Three Towers* (p. 36), *Counters in a Cup* (p. 51) and *How Many Am I Hiding?* (p. 52), and *Dot Addition* (p. 83)
- Review the routines for solving story problems aloud and on paper (pp. 37, 118)

Assessment

- Assessment in This Unit (p. 14)
- Assessment Activity (p. 94) and Teacher Note (p. 151)
- Assessment Activity (p. 113) and Teacher Note (p. 154)
- End-of-Unit Assessment Activities (p. 135) and Teacher Note (p. 164)

Practice & Review

- Classroom Routines (p. 18)
- Practice and Review (p. 19)

Investigation 3: Addition and Subtraction

These pages provide an overview of this Investigation:

- Mathematical Emphases (p. 97)
- Investigation 3 Planner (pp. 98, 100)

The following activities and information support the key math ideas:

- Activity: Introducing *Five-in-a-Row: with Three Cards* (p. 103)
- Discussions: Strategies for Subtraction (p. 121) and Strategies for Addition (p. 125)
- Teacher Note: Three Approaches to Story Problems (p. 156)

Teacher Notes and **Dialogue Boxes** are important sources of information about mathematics content and about students' thinking about mathematical ideas. Each time you teach this unit, you can read more of this information.